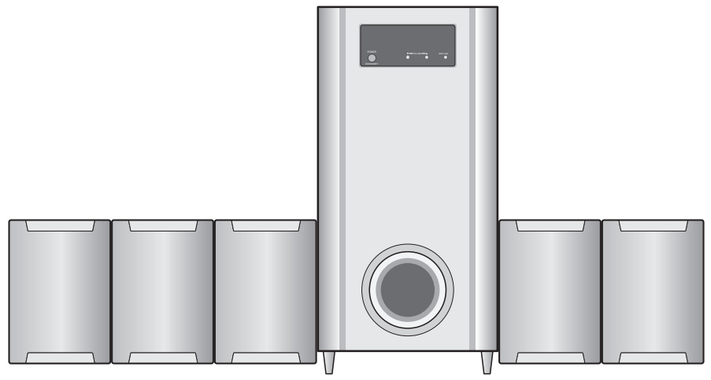
LG Electronics Inc.

SERVICE MANUAL MODEL: FA-3000AWE

LG

DIGITAL HOME CINEMA SYSTEM

SERVICE MANUAL



MODEL: FA-3000AWE

CONTENTS

ESD PRECAUTIONS ····· 2

SPECIFICATIONS ····· 3

TROUBLESHOOTING ····· 4

IC VOLTAGE SHEET ····· 6

BLOCK DIAGRAM ····· 9

SCHEMATIC DIAGRAMS ····· 10

WIRING DIAGRAM ····· 14

PRINTED CIRCUIT DIAGRAMS ····· 15

SPEAKER ····· 20

REPLACEMENT PARTS LIST ····· 21

ESD PRECAUTIONS

Electrostatically Sensitive Devices (ESD)

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ESD devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESD devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
6. Do not remove a replacement ESD device from its protective package until immediately before you are ready to install it. (Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
7. Immediately before removing the protective material from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will by installed.

CAUTION : BE SURE NO POWER IS APPLIED TO THE CHASSIS OR CIRCUIT, AND OBSERVE ALL OTHER SAFETY PRECAUTIONS.

8. Minimize bodily motions when handing unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

CAUTION. GRAPHIC SYMBOLS

THE LIGHTNING FLASH WITH APROWHEAD SYMBOL. WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED “DANGEROUS VOLTAGE” THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.

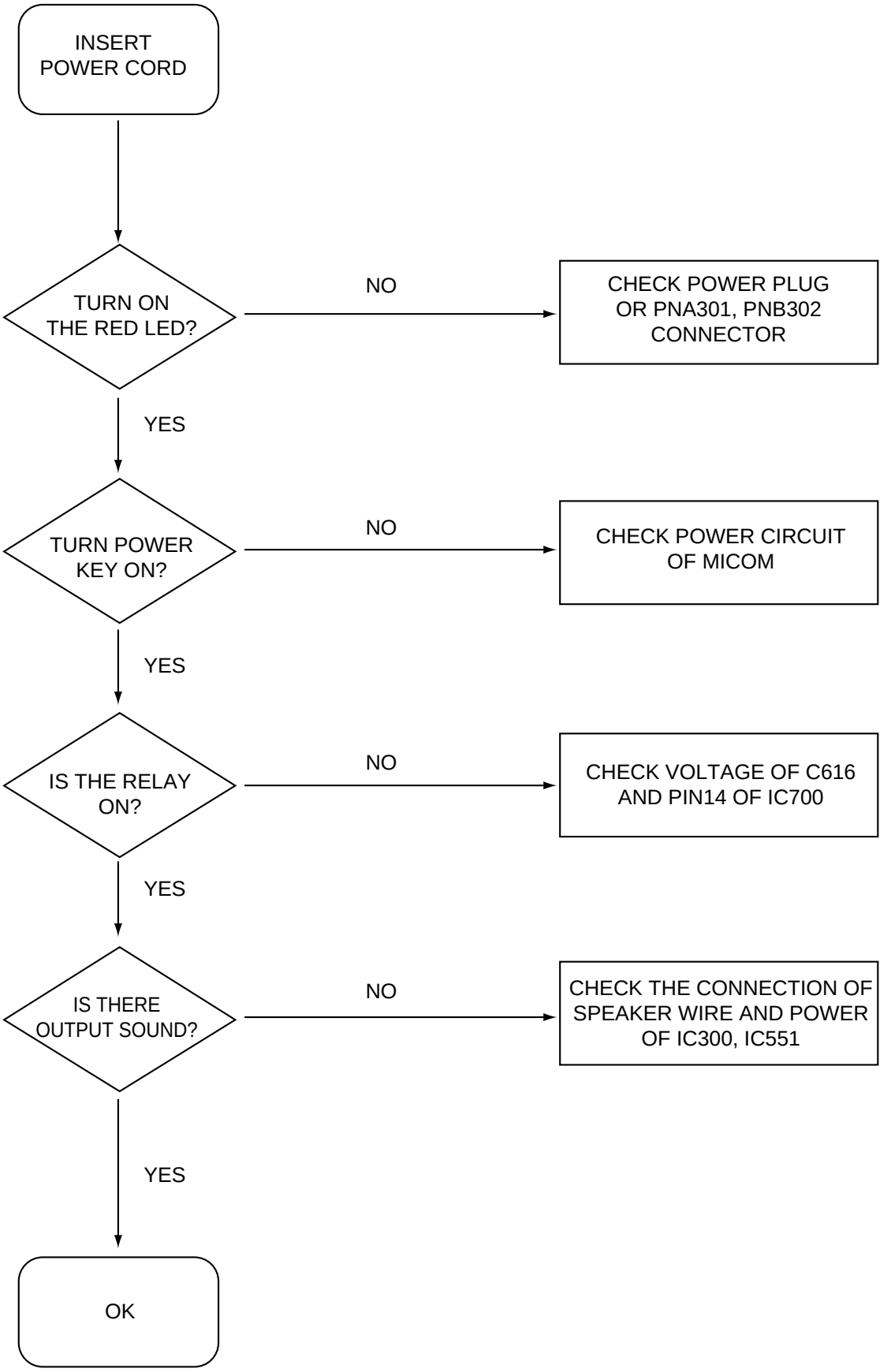
THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF IMPORTANT SAFETY INFORMATION IN SERVICE LITERATURE.

SPECIFICATIONS

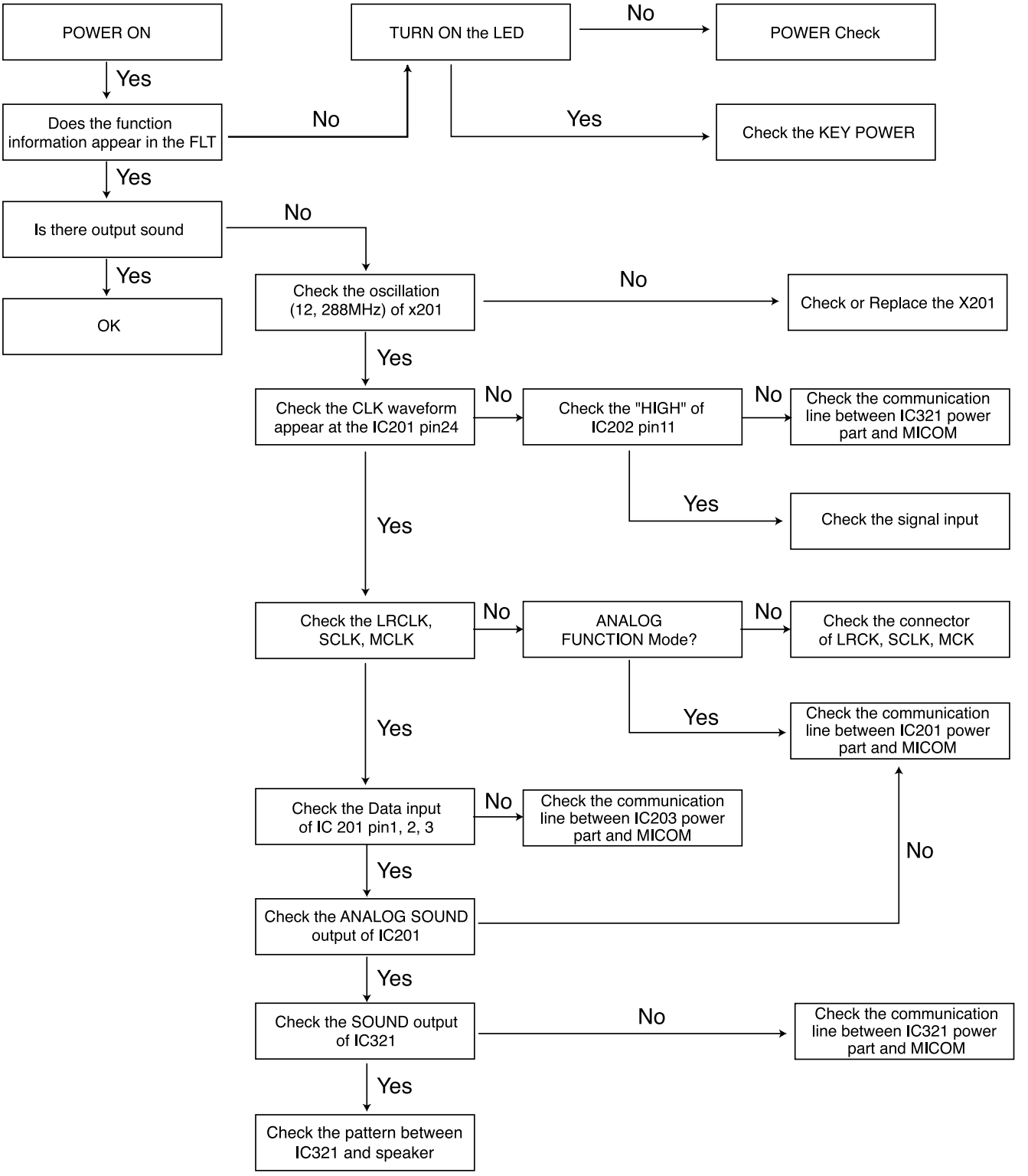
Power supply	AC230V, 50/60Hz	
Power consumption	150W	
Mass	12.4kg	
External dimensions (W x H x D)	23.5 x 430 x 483mm	
Operating conditions	Temperature : 5˚C to 35˚C, Operation status: Horizontal	
Frequency response (audio)	150Hz to 20kHz	
Signal-to-noise ratio (audio)	More than 80dB (1kHz, NOP, JIS FILTER)	
Harmonic distortion (audio)	0.5% (1kHz, at 12W position) (30 kHz LPF/A Filter)	
Surround Mode	Front: 30W + 30W (THD 10%) Center: 30W Surround*: 30W + 30W (8Ω at 1kHz, THD 10%) Subwoofer*: 50W (4Ω at 30 Hz, THD 10%)	
Inputs	AUX, COAXAL., OPTICAL AUDIO	
	Satellite Speaker (FE-3000TE)	**Active Subwoofer (FE-3000AWE)**
Type	1 Way 1 Speaker	1 Way 1 Speaker
Impedance	8Ω	4Ω
Frequency Response	110~20,000 Hz	40~2,500Hz
Sound Pressure Level	83dB/W(1m)	82dB/W(1m)
Rated Input Power	30W	50W
Max. Input Power	60W	100W
Net Dimensions (W x H x D)	90 x 125 x 107mm	235 x 430 x 483mm
Net Weight	0.7kg	12.4kg

NOTE : Designs and specifications are subject to change without notice.

TROUBLE SHOOTING



AUDIO µ-COM Circuit



IC VOLTAGE SHEET

Power & Micom

1.FA-P3000 (Power & Micom)

IC600 (KIA7806)	
PIN NO.	**Volt(V)**
1	14.62V
2	X
3	5.95V
IC601 (KIA7906)	
1	-6.08V
2	-15.69V
3	0
IC602 (KA78R33)	
1	4.95V
2	3.3V
3	0
4	4.95V
IC603 (KA7805)	
1	14.7V
2	0
3	4.9V
IC604(KIA7805)	
1	-16.60V
2	-24.8V
3	-20.2V
IC605 (KIA7805)	
1	10.2V
2	0
3	5.6V

IC321 (M62446AFP)					
PIN NO.	**Volt(V)**	**PIN NO.**	**Volt(V)**	**PIN NO.**	**Volt(V)**
1	0.34V	16	0	31	0.04mv
2	0.78V	17	0	32	0.04mv
3	0.32V	18	0	33	0.039mv
4	0.34V	19	0	34	0.036mv
5	5.93V	20	0.03mv	35	0.042mv
6	0	21	0	36	0.042mv
7	0	22	0	37	-0.021mv
8	0	23	0	38	-0.021mv
9	0	24	0	39	0.026mv
10	0	25	0	40	4.88V
11	0	26	0.03mv	41	0.026mv
12	0	27	0.02mv	42	4.95V
13	0	28	0.09mv		
14	0	29	-0.02mv		
15	0.02mv	30	-6.08V		

IC700(LC875747B-50R4)									
PIN NO.	**Volt(V)**	**PIN NO.**	**Volt(V)**	**PIN NO.**	**Volt(V)**	**PIN NO.**	**Volt(V)**	**PIN NO.**	**Volt(V)**
1	0.24V	16	0.21V	31	2.11V	46	4.15V	61	2.26V
2	4.58V	17	0.43V	32	0.31V	47	2.16V	62	2.24V
3	2.29V	18	2.08V	33	0.27V	48	2.14V	63	2.4mv
4	4.88V	19	3.26V	34	0.25V	49	4.16V	64	2.25V
5	4.56V	20	4.2mv	35	2.3mv	50	26.0mv		
6	2.22V	21	47.9mv	36	4.9V	51	2.26V		
7	2.11V	22	2.19V	37	2.5mv	52	4.47V		
8	2.20V	23	2.18V	38	3.1mv	53	4.88V		
9	4.90V	24	2.15V	39	2.5mv	54	2.35V		
10	2.3mv	25	87.2mv	40	4.87V	55	2.15V		
11	3.19V	26	2.3mv	41	1.98V	56	2.2mv		
12	2.4mv	27	2.3mv	42	4.91	57			
13	4.9V	28	2.3mv	43	2.6mv	58	2.44V		
14	4.69V	29	2.14V	44	2.6mv	59	4.91V		
15	2.3mv	30	2.13V	45	2.11V	60	5.06V		

2. FA-P3000 (AMP)

IC320 (STK402-930)				IC151 (TDA7294)	
PIN NO.	Volt(V)	PIN NO.	Volt(V)	PIN NO.	Volt(V)
1	-0.12V	16	-0.13V	1	-1.8mv
2	-0.13V	17	-0.13V	2	-0.4mv
3	-0.12V	18	-24.4V	3	-1.5mv
4	-0.12V	19	-0.13V	4	-1.8mv
5	-15.4mv	20	-0.13V	5	-0.3V
6	-13.3mv	21	-0.12V	6	15.55V
7	28.6V	22	-0.13V	7	29.1V
8	-28.7V	23	-11.4mv	8	-29V
9	-28.7V	24	-25.8V	9	4.9V
10	28.7V			10	4.9V
11	12.6mv			11	2.2mv
12	-9.2mv			12	6.8mv
13	25.8V			13	29.2V
14	-2.3mv			14	-0.7mv
15	-25.5V			15	-29.3V

3. FA-P3000 (DSP)

IC201 (CS4228A)				IC202 (CS8415)			
PIN NO.	Volt(V)	PIN NO.	Volt(V)	PIN NO.	Volt(V)	PIN NO.	Volt(V)
1	0.58V	16	2.11V	1	0.12V	16	1.63V
2	34.8mv	17	2.11V	2	88.8mv	17	1.64V
3	0.94V	18	3.56V	3	8mv	18	25.7mv
4	1.23V	19	2.17V	4	7.6mv	19	2.9V
5	1.61V	20	2.17V	5	7.6mv	20	25.3mv
6	1.64V	21	4.92V	6	4.93V	21	1.7V
7	5.5mv	22	4.6mv	7	7.6mv	22	24.6mv
8	3.27V	23	2.28V	8	7.6mv	23	3.28V
9	3.28V	24	2.29V	9	3.27V	24	24.6mv
10	1.51V	25	2.28V	10	1.50V	25	24.6mv
11	13.8mv	26	2.29V	11	26.4mv	26	24.6mv
12	0.12V	27	2.28V	12	0.25V	27	0.11V
13	3.27V	28	2.29V	13	24.5mv	28	13.7mv
14	3.26V			14	24.5mv		
15	3.28V			15	24.5mv		

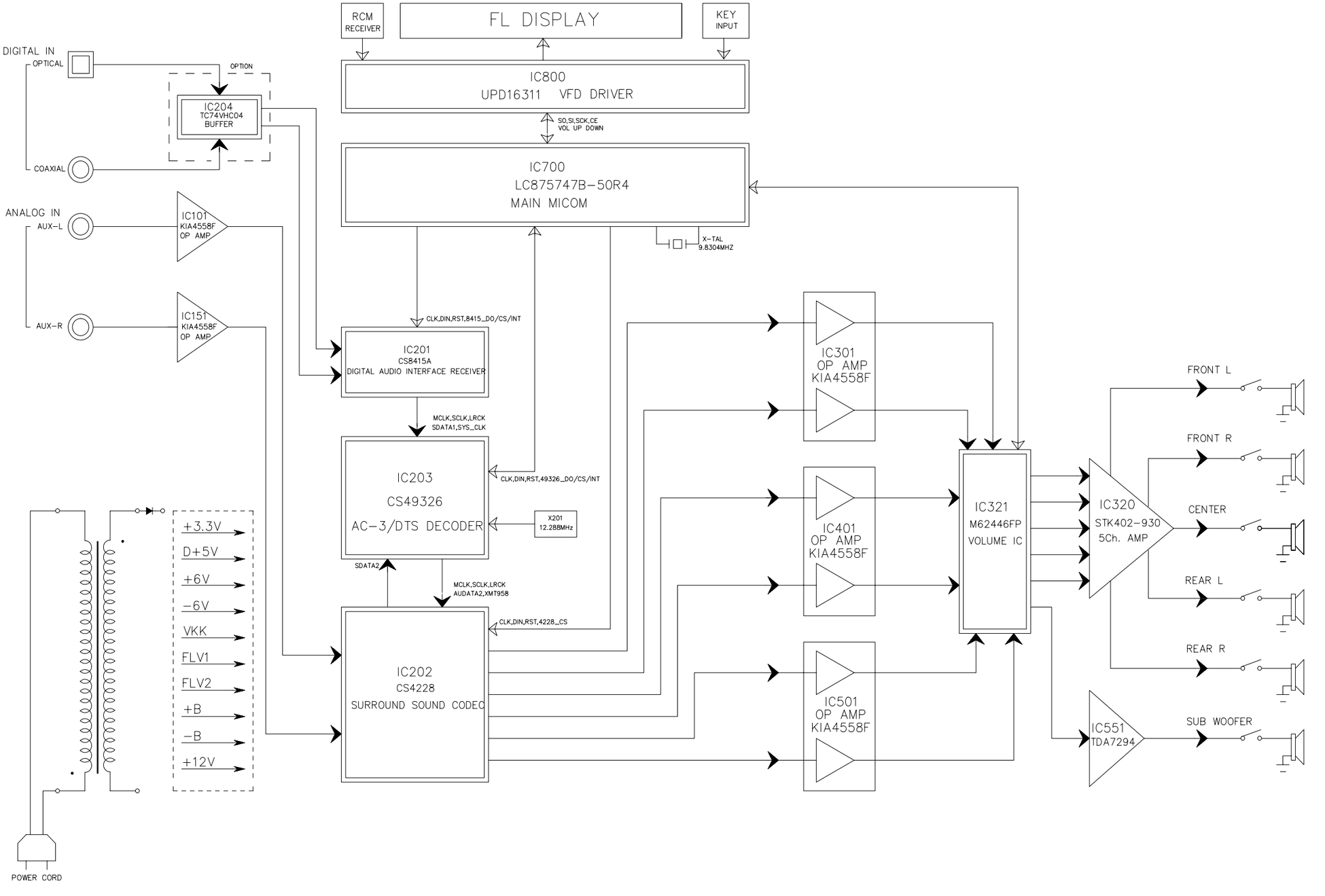
IC201 (CS493264)					
PIN NO.	Volt(V)	PIN NO.	Volt(V)	PIN NO.	Volt(V)
1	2.48V	16	2.58V	31	7.9mv
2	25.2mv	17	2.58V	32	2.07V
3	0.94V	18	2.58V	33	1.3V
4	2.47V	19	0.12V	34	2.59V
5	25.1mv	20	3.29V	35	7.9mv
6	2.58V	21	2.58V	36	3.27V
7	4.2mv	22	9.2mv	37	21.3mv
8	2.58V	23	2.58V	38	2.58V
9	2.58V	24	8.1mv		
10	2.58V	25	1.62V		
11	2.58V	26	1.65V		
12	2.58V	27	1.24V		
13	8.0mv	28	1.62V		
14	2.58V	29	1.66V		
15	2.58V	30	1.7V		

IC101 (KIA4558F)		IC151 (A4558F)		IC301 (KIA4558F)		IC401 (KIA4558F)		8)IC501 (KIA4558F)	
PIN NO.	Volt(V)	PIN NO.	Volt(V)	PIN NO.	Volt(V)	PIN NO.	Volt(V)	PIN NO.	Volt(V)
1	5.7mv	1	5.7mv	1	14.5mv	1	11.4mv	1	11.2mv
2	6.2mv	2	6.0mv	2	10.1mv	2	8.6mv	2	8.4mv
3	5.4mv	3	5.4mv	3	9.6mv	3	8.5mv	3	8.4mv
4	-5.23V	4	-5.23V	4	-6.07V	4	-6.07V	4	-6.07V
5	5.5mv	5	5.4mv	5	9.6mv	5	8.6mv	5	8.7mv
6	5.9mv	6	5.3mv	6	10.4mv	6	9.2mv	6	9.2mv
7	5.4mv	7	4.2mv	7	15.1mv	7	12.8mv	7	12.7mv
8	5.09V	8	5.08V	8	5.92V	8	5.92V	8	5.92V

4.FA-P3000 (Fornt)

IC800 (UPD16311)							
PIN NO.	Volt(V)	PIN NO.	Volt(V)	PIN NO.	Volt(V)	PIN NO.	Volt(V)
1	1.72V	16	-25.8V	31	-24V	46	5.0V
2	1.70V	17	-19.5V	32	-23.9V	47	5.0V
3	1.70V	18	-25.8V	33	5.0V	48	5.0V
4	1.70V	19	-23.7V	34	-26.2V	49	5.0V
5	1.70V	20	-25.8V	35	-23.9V	50	5.0V
6	4.58V	21	-12.6V	36	-23.9V	51	1.0mv
7	4.95V	22	-15.2V	37	-23.9V	52	2.72V
8	4.88V	23	-19.4V	38	-23.9V		
9	4.58V	24	-21.5V	39	-23.9V		
10	1.77V	25	-13.1V	40	-23.9V		
11	1.77V	26	-17.3V	41	-23.9V		
12	1.76V	27	-26V	42	-23.9V		
13	1.72V	28	-23.9V	43	-23.9V		
14	4.95V	29	-26V	44	-24.1V		
15	-25.5V	30	-17.4V	45	5.0v		

BLOCK DIAGRAM



BLOCK DIAGRAM
FA-P3000
VD 3854R20021A

SCHEMATIC DIAGRAMS

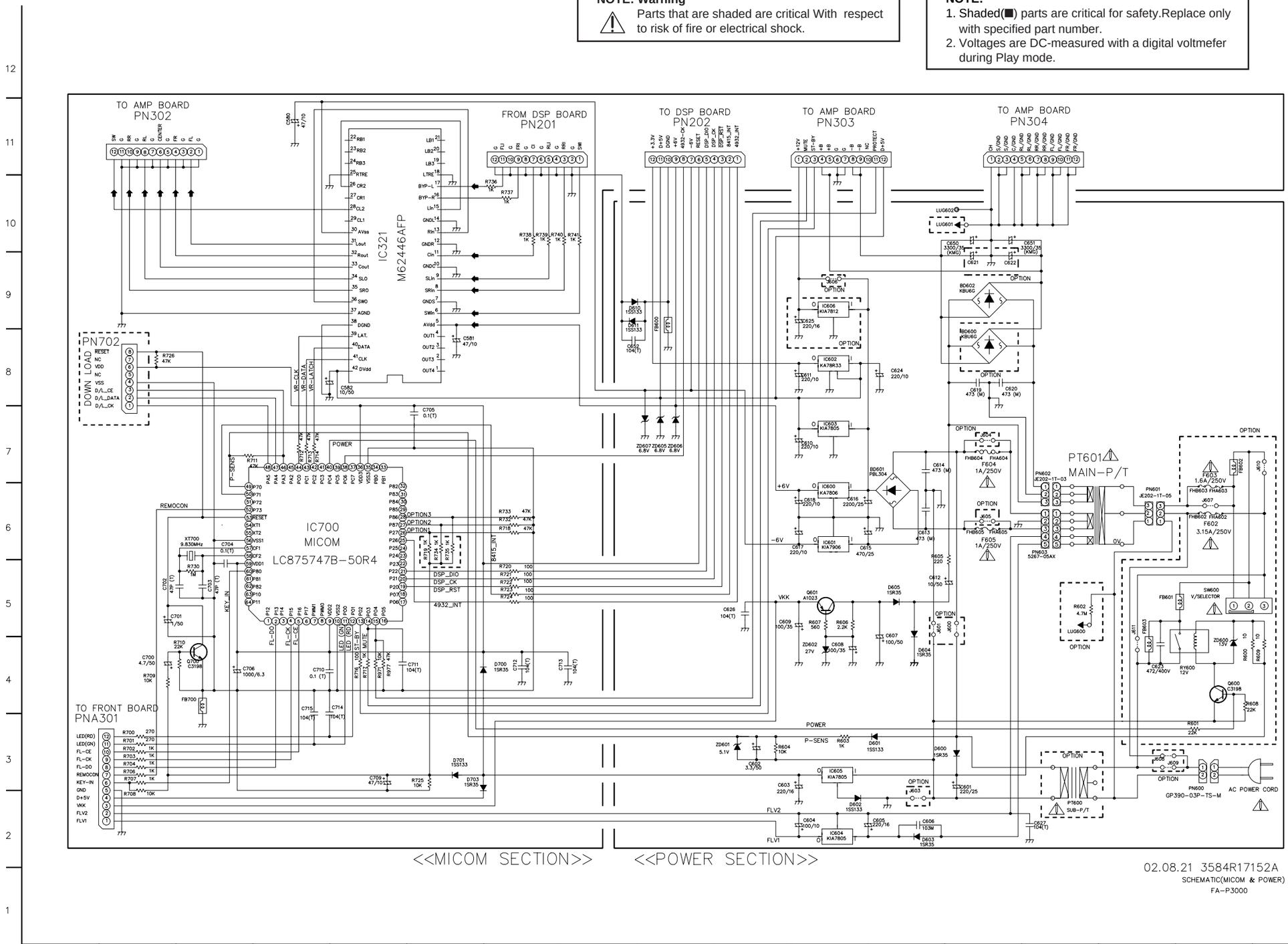
• POWER & MICOM SCHEMATIC DIAGRAM

NOTE: Warning

⚠ Parts that are shaded are critical With respect to risk of fire or electrical shock.

NOTE:

1. Shaded(■) parts are critical for safety.Replace only with specified part number.
2. Voltages are DC-measured with a digital voltmefer during Play mode.

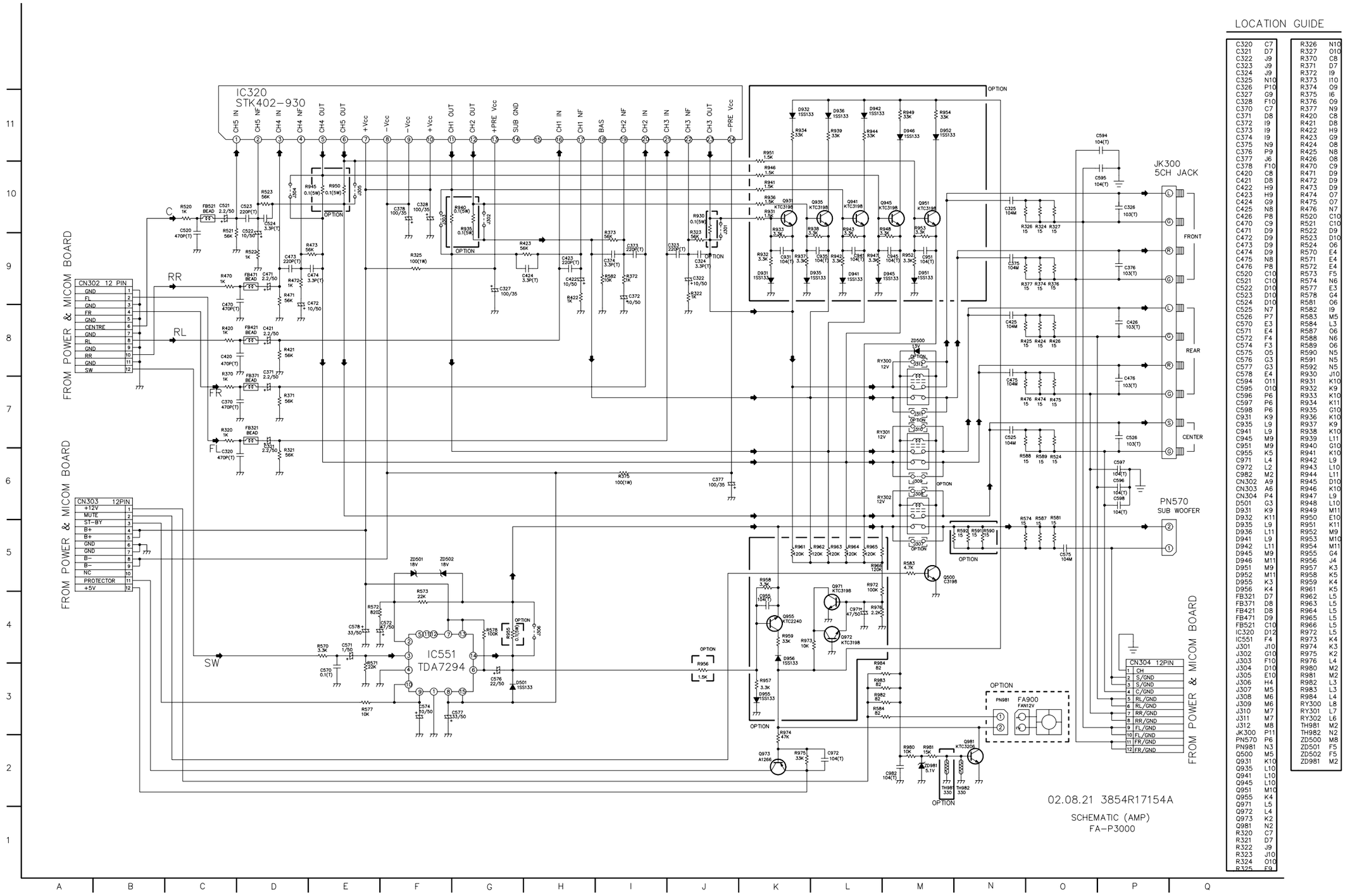


02.08.21 3584R17152A
SCHEMATIC(MICOM & POWER)
FA-P3000

LOCATION GUIDE

BD600	M8	R604	J3
BD601	L7	R605	L6
BD602	M9	R606	K5
C580	D11	R607	K5
C581	F8	R608	P4
C582	E8	R609	Q4
C601	M3	R700	B3
C602	J3	R701	B3
C603	J3	R702	B3
C604	K2	R703	B3
C605	L2	R704	B3
C606	L2	R706	B3
C607	L4	R707	B3
C608	K4	R708	B2
C609	J5	R709	B4
C610	K7	R710	B4
C611	K8	R711	C7
C612	L5	R712	D7
C613	L6	R713	D7
C614	L7	R714	D7
C615	K6	R716	E4
C616	K6	R717	E4
C617	K6	R718	G6
C618	K6	R719	F6
C619	M8	R720	G5
C620	M8	R721	G5
C621	M9	R722	G5
C622	M9	R723	G5
C623	O4	R724	G5
C624	L8	R725	F3
C625	K9	R726	B8
C626	J5	R730	C5
C627	N2	R732	G6
C650	M10	R733	G6
C651	N10	R734	F6
C652	H8	R735	F6
C700	B4	R736	G10
C701	B5	R737	G10
C702	B5	R738	G10
C703	C5	R739	G10
C704	C6	R740	G10
C705	F7	R741	H10
C706	O4	R971	E4
C709	E3	R977	E4
C710	D4	RY600	P4
C711	F4	SW600	P5
C712	G4	XT700	C6
C713	H4	ZD600	P4
C714	E4	ZD601	J3
C715	D4	ZD602	K4
D600	L3	ZD605	I7
D601	L3	ZD606	I7
D602	K2	ZD607	H7
D603	L2		
D604	L4		
D605	L5		
D610	H9		
D611	H9		
D700	G4		
D701	F3		
D703	F3		
FB600	I8		
FB601	O5		
FB602	P7		
FB603	O5		
FB700	C4		
FHA602	P6		
FHA603	P6		
FHA604	M7		
FHA605	M6		
FHB602	P6		
FHB603	P6		
FHB604	M7		
FHB605	M6		
IC321	E9		
IC600	K6		
IC601	K6		
IC602	K8		
IC603	K7		
IC604	K2		
IC605	K3		
IC606	K9		
IC700	D6		
J600	M5		
J601	L5		
J603	L2		
J604	M7		
J605	M6		
J606	K9		
J607	P6		
J608	O3		
J609	O3		
J610	Q7		
J611	O5		
LUG600	N5		
LUG601	L10		
LUG602	L10		
PN201	G11		
PN202	I11		
PN302	B11		
PN303	K11		
PN304	M11		
PN600	P3		
PN601	O6		
PN602	N7		
PN603	N6		
PN702	A8		
PNA301	A3		
PT600	N2		
Q600	P4		
Q601	K5		
Q700	O4		
R600	P4		
R601	P3		
R602	N5		
R603	K3		

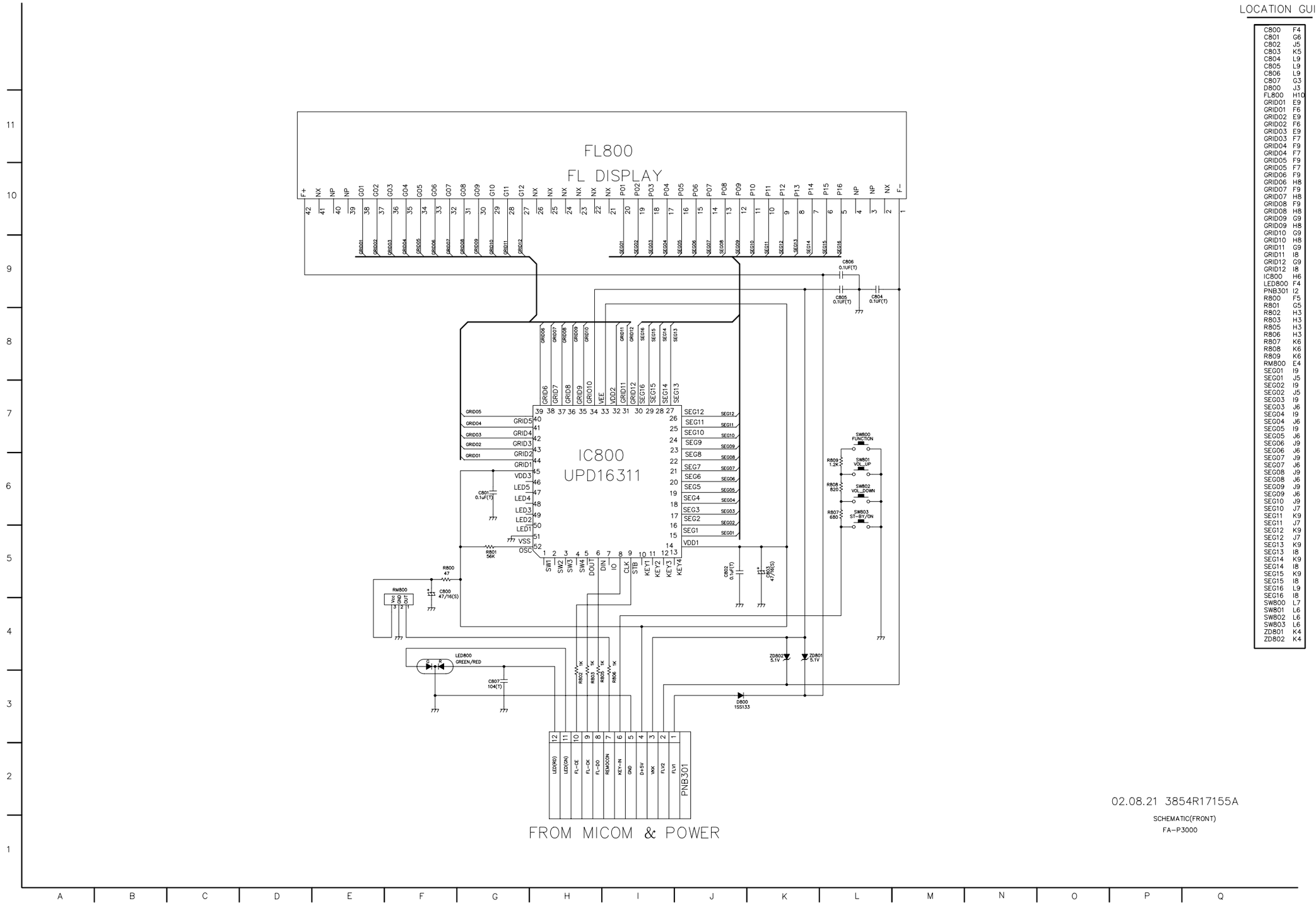
• DSP SCHEMATIC DIAGRAM



LOCATION GUIDE

C320	C7	R326	N10
C321	D7	R327	O10
C322	J9	R370	C8
C323	J9	R371	D7
C324	J9	R372	I9
C325	N10	R373	I10
C326	P10	R374	O9
C327	G9	R375	I6
C328	F10	R376	O9
C370	C7	R377	N9
C371	D8	R420	C8
C372	I9	R421	D8
C373	I9	R422	H9
C374	I9	R423	G9
C375	N9	R424	O8
C376	P9	R425	N8
C377	J6	R426	O8
C378	F10	R470	C9
C420	C8	R471	D9
C421	D8	R472	D9
C422	H9	R473	D9
C423	H9	R474	O7
C424	G9	R475	O7
C425	N8	R476	N7
C426	P8	R520	C10
C470	C9	R521	C10
C471	D9	R522	D9
C472	D9	R523	D10
C473	D9	R524	O6
C474	D9	R570	E4
C475	N8	R571	E4
C476	P8	R572	E4
C520	C10	R573	F5
C521	C10	R574	N6
C522	D10	R577	E3
C523	D10	R578	G4
C524	D10	R581	O6
C525	N7	R582	I9
C526	P7	R583	M5
C570	E3	R584	L3
C571	E4	R587	O6
C572	F4	R588	N6
C574	F3	R589	O6
C575	O5	R590	N5
C576	G3	R591	N5
C577	G3	R592	N5
C578	E4	R930	J10
C594	O11	R931	K10
C595	O10	R932	K9
C596	P6	R933	K10
C597	P6	R934	K11
C598	P6	R935	G10
C931	K9	R936	K10
C935	L9	R937	K9
C941	L9	R938	K10
C945	M9	R939	L11
C951	M9	R940	G10
C955	K5	R941	K10
C971	L4	R942	L9
C972	L2	R943	L10
C982	M2	R944	L11
CN302	A9	R945	D10
CN303	A6	R946	K10
CN304	P4	R947	L9
D501	G3	R948	L10
D931	K9	R949	M11
D932	K11	R950	E10
D935	L9	R951	K11
D936	L11	R952	M9
D941	L9	R953	M10
D942	L11	R954	M11
D945	M9	R955	G4
D946	M11	R956	J4
D951	M9	R957	K3
D952	M11	R958	K5
D955	K3	R959	K4
D956	K4	R961	K5
FB321	D7	R962	L5
FB371	D8	R963	L5
FB421	D8	R964	L5
FB471	D9	R965	L5
FB521	C10	R966	L5
IC320	D12	R972	L5
IC551	F4	R973	K4
J301	J10	R974	K3
J302	G10	R975	K2
J303	F10	R976	L4
J304	D10	R980	M2
J305	E10	R981	M2
J306	H4	R982	L3
J307	M5	R983	L3
J308	M6	R984	L4
J309	M6	RY300	L8
J310	M7	RY301	L7
J311	M7	RY302	L6
J312	M8	TH981	M2
JK300	P11	TH982	N2
PN570	P6	ZD500	M8
PN981	N3	ZD501	F5
Q500	M5	ZD502	F5
Q931	K10	ZD981	M2
Q935	L10		
Q941	L10		
Q945	L10		
Q951	M10		
Q955	K4		
Q971	L5		
Q972	L4		
Q973	K2		
Q981	N2		
R320	C7		
R321	D7		
R322	J9		
R323	J10		
R324	O10		
R325	F9		

• FRONT SCHEMATIC DIAGRAM



LOCATION GUIDE

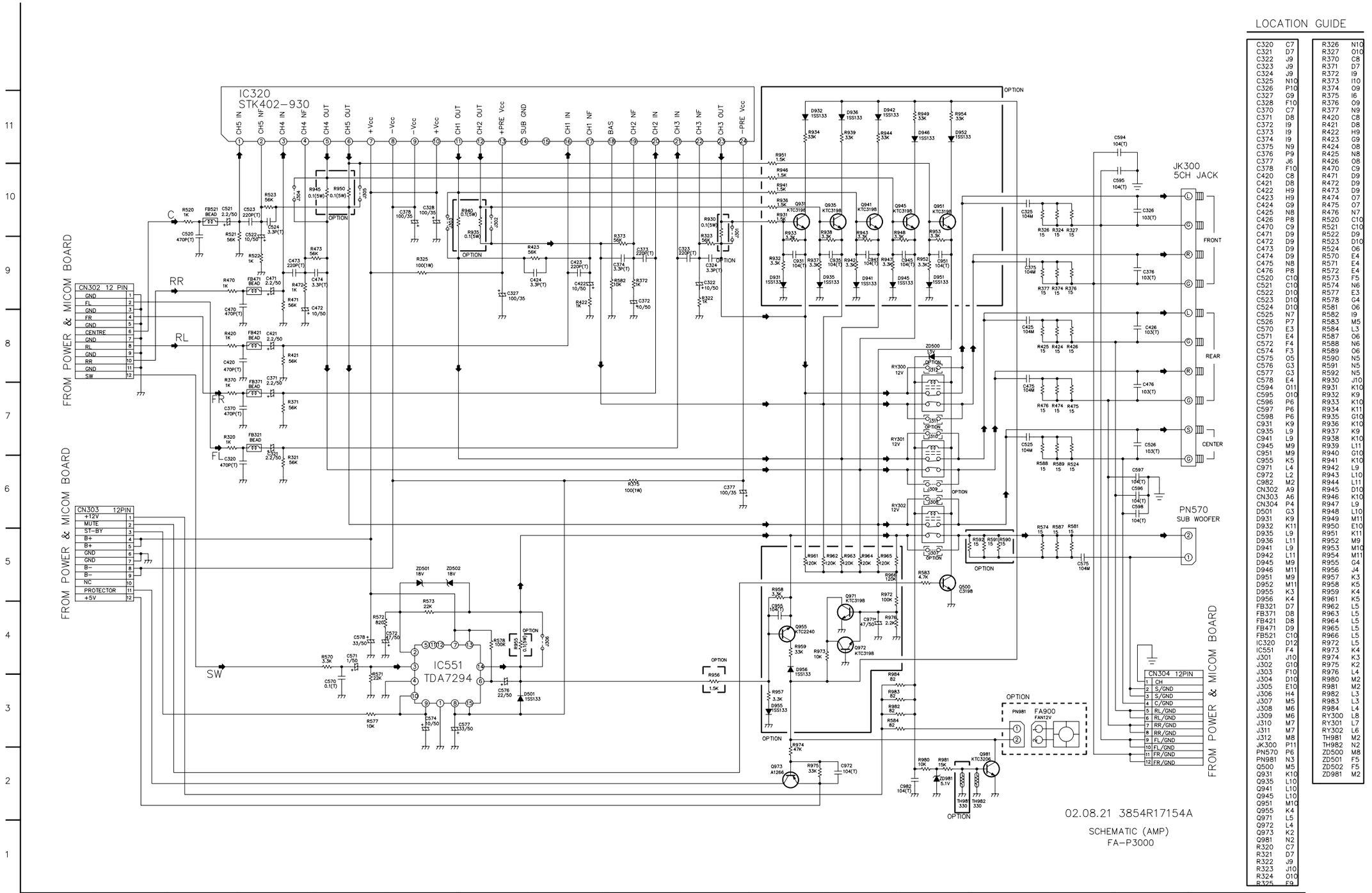
C800	F4
C801	G6
C802	J5
C803	K5
C804	L9
C805	L9
C806	L9
C807	G3
D800	J3
FL800	H10
GRID01	E9
GRID01	F6
GRID02	E9
GRID02	F6
GRID03	E9
GRID03	F7
GRID04	F9
GRID04	F7
GRID05	F9
GRID05	F7
GRID06	F9
GRID06	H8
GRID07	F9
GRID07	H8
GRID08	F9
GRID08	H8
GRID09	G9
GRID09	H8
GRID10	G9
GRID10	H8
GRID11	G9
GRID11	I8
GRID12	G9
GRID12	I8
IC800	H6
LED800	F4
PNB301	I2
R800	F5
R801	G5
R802	H3
R803	H3
R805	H3
R806	H3
R807	K6
R808	K6
R809	K6
RM800	E4
SEG01	I9
SEG01	J5
SEG02	I9
SEG02	J5
SEG03	I9
SEG03	J6
SEG04	I9
SEG04	J6
SEG05	I9
SEG05	J6
SEG06	J9
SEG06	J6
SEG07	J9
SEG07	J6
SEG08	J9
SEG08	J6
SEG09	J9
SEG09	J6
SEG10	J9
SEG10	J7
SEG11	K9
SEG11	J7
SEG12	K9
SEG12	J7
SEG13	K9
SEG13	I8
SEG14	K9
SEG14	I8
SEG15	K9
SEG15	I8
SEG16	L9
SEG16	I8
SW800	L7
SW801	L6
SW802	L6
SW803	L6
ZD801	K4
ZD802	K4

02.08.21 3854R17155A

SCHEMATIC(FRONT)

FA-P3000

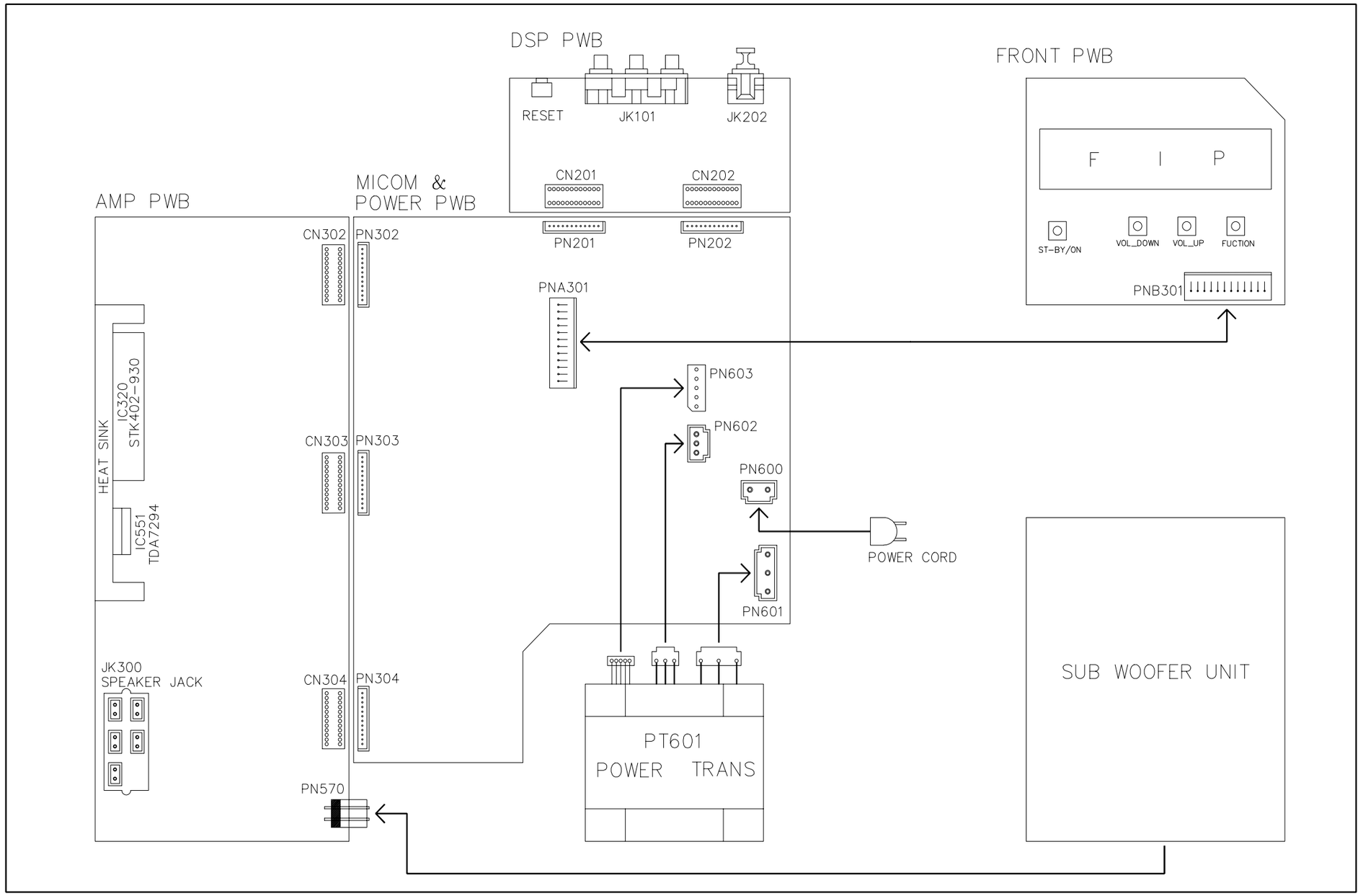
• AMP SCHEMATIC DIAGRAM



LOCATION GUIDE

C320	C7	R326	N10
C321	D7	R327	O10
C322	J9	R370	C8
C323	J9	R371	D7
C324	J9	R372	I9
C325	N10	R373	I10
C326	P10	R374	O9
C327	G9	R375	I6
C328	F10	R376	O9
C370	C7	R377	N9
C371	D8	R420	C8
C372	I9	R421	D8
C373	I9	R422	H9
C374	I9	R423	G9
C375	N9	R424	O8
C376	P9	R425	N8
C377	J6	R426	O8
C378	F10	R470	C9
C420	C8	R471	D9
C421	D8	R472	D9
C422	H9	R473	D9
C423	H9	R474	O7
C424	G9	R475	O7
C425	N8	R476	N7
C426	P8	R520	C10
C470	C9	R521	C10
C471	D9	R522	D9
C472	D9	R523	D10
C473	D9	R524	O6
C474	D9	R570	E4
C475	N8	R571	E4
C476	P8	R572	E4
C520	C10	R573	F5
C521	C10	R574	N6
C522	D10	R577	E3
C523	D10	R578	G4
C524	D10	R581	O6
C525	N7	R582	I9
C526	P7	R583	M5
C570	E3	R584	L3
C571	E4	R587	O6
C572	F4	R588	N6
C574	F3	R589	O6
C575	O5	R590	N5
C576	G3	R591	N5
C577	G3	R592	N5
C578	E4	R930	J10
C594	O11	R931	K10
C595	O10	R932	K9
C596	P6	R933	K10
C597	P6	R934	K11
C598	P6	R935	G10
C931	K9	R936	K10
C935	L9	R937	K9
C941	L9	R938	K10
C945	M9	R939	L11
C951	M9	R940	G10
C955	K5	R941	K10
C971	L4	R942	L9
C972	L2	R943	L10
C982	M2	R944	L11
CN302	A9	R945	D10
CN303	A6	R946	K10
CN304	P4	R947	L9
D501	G3	R948	L10
D931	K9	R949	M11
D932	K11	R950	E10
D935	L9	R951	K11
D936	L11	R952	M9
D941	L9	R953	M10
D942	L11	R954	M11
D945	M9	R955	G4
D946	M11	R956	J4
D951	M9	R957	K3
D952	M11	R958	K5
D955	K3	R959	K4
D956	K4	R961	K5
FB321	D7	R962	L5
FB371	D8	R963	L5
FB421	D8	R964	L5
FB471	D9	R965	L5
FB521	C10	R966	L5
IC320	D12	R972	L5
IC551	F4	R973	K4
J301	J10	R974	K3
J302	G10	R975	K2
J303	F10	R976	L4
J304	D10	R980	M2
J305	E10	R981	M2
J306	H4	R982	L3
J307	M5	R983	L3
J308	M6	R984	L4
J309	M6	RY300	L8
J310	M7	RY301	L7
J311	M7	RY302	L6
J312	M8	TH981	M2
JK300	P11	TH982	N2
PN570	P6	ZD500	M8
PN981	N3	ZD501	F5
Q500	M5	ZD502	F5
Q931	K10	ZD981	M2
Q935	L10		
Q941	L10		
Q945	L10		
Q951	M10		
Q955	K4		
Q971	L5		
Q972	L4		
Q973	K2		
Q981	N2		
R320	C7		
R321	D7		
R322	J9		
R323	J10		
R324	O10		
R325	F9		

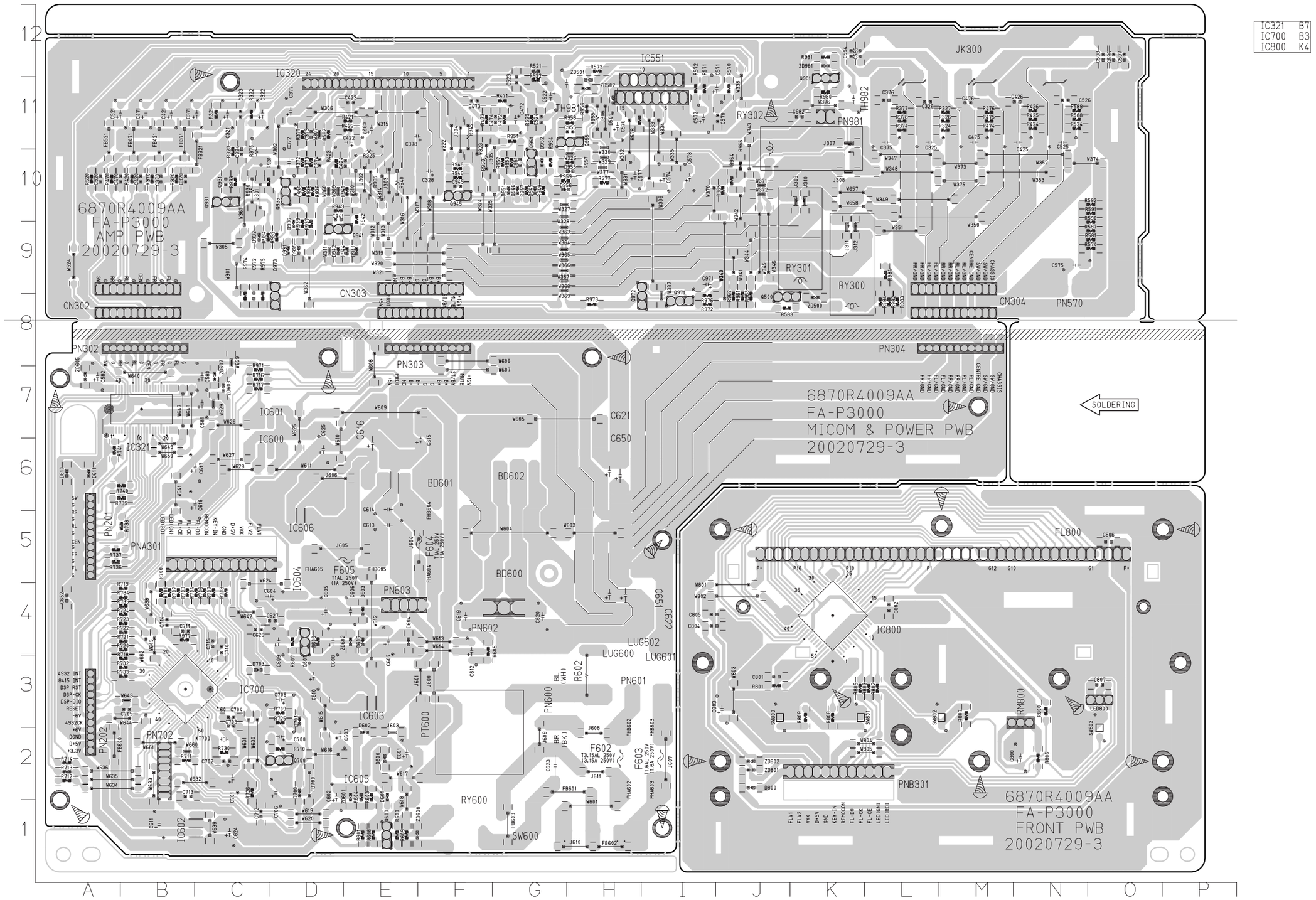
WIRING DIAGRAM



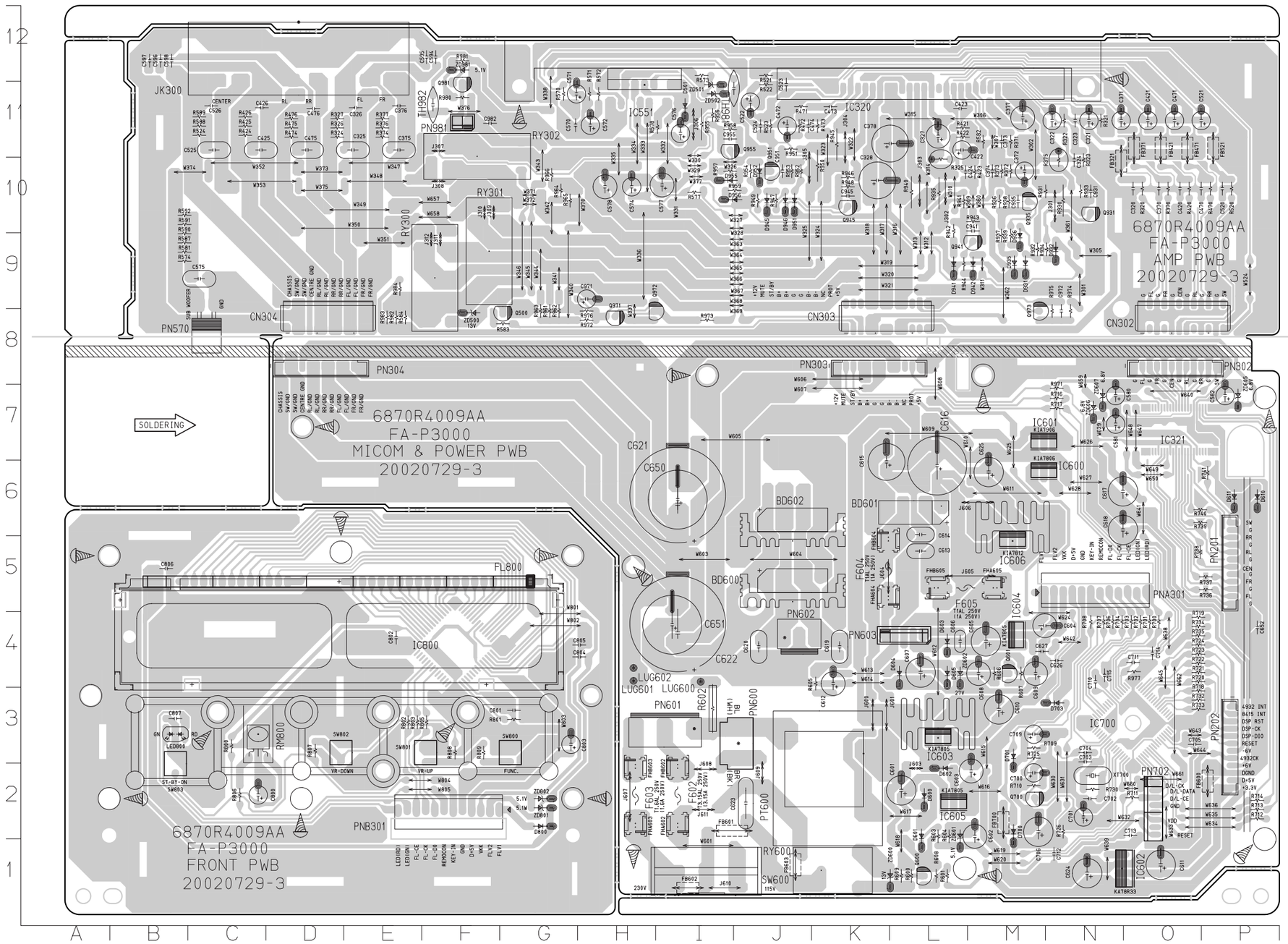
WIRING DIAGRAM
FA-P3000
VD 3854R20022A

PRINTED CIRCUIT DIAGRAMS

• MAIN, POWER, FRONT, MICOM P.C. BOARD(SOLDER SIDE)

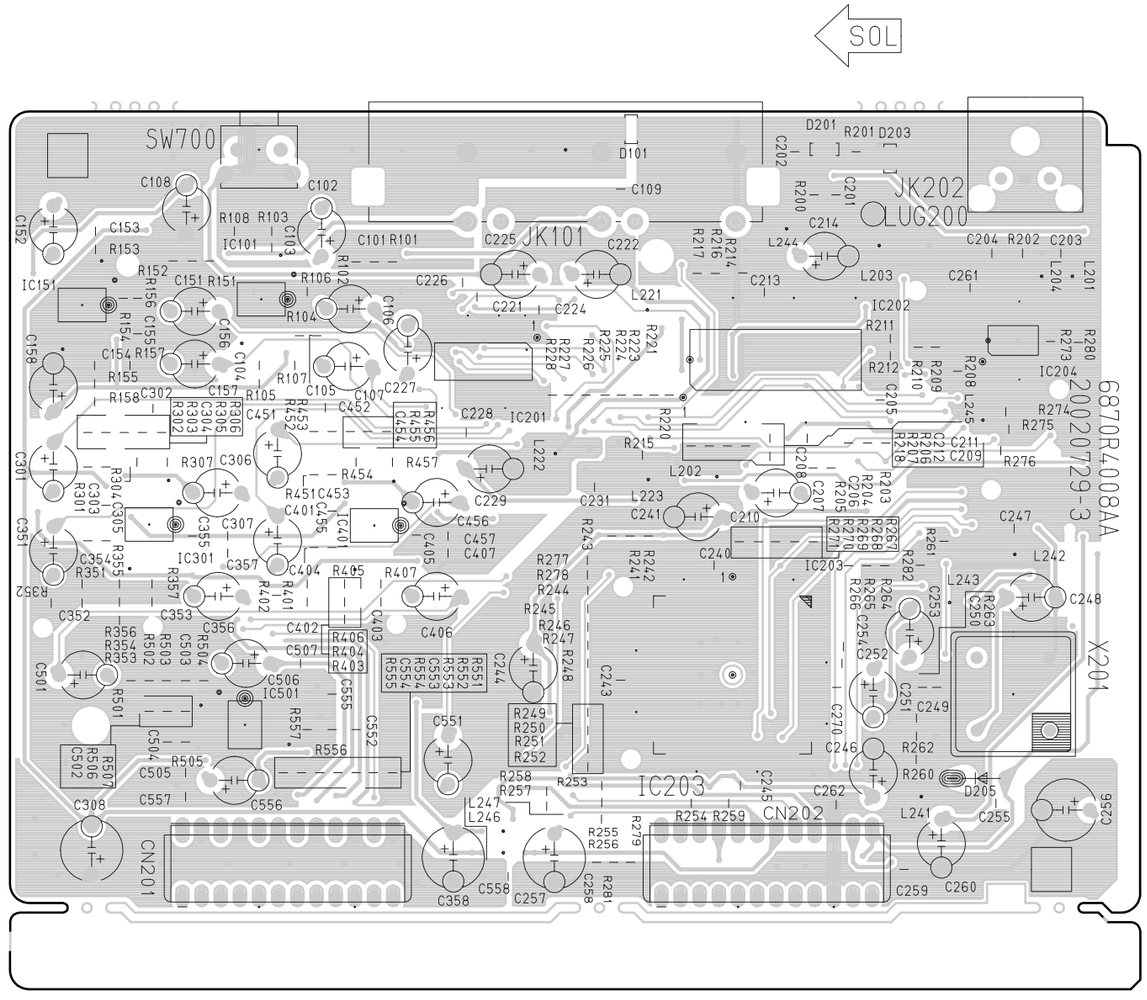

IC321 B7
IC700 B3
IC800 K4
6870R4009AA
FA-P3000
AMP PWB
20020729-3
6870R4009AA
FA-P3000
MICOM & POWER PWB
20020729-3
6870R4009AA
FA-P3000
FRONT PWB
20020729-3
SOLDERING
IC320
IC551
JK300
TH982
PN981
RY302
RY301
RY300
CN302
CN303
CN304
PN570
PN302
PN303
PN304
IC601
IC600
IC606
IC604
IC605
IC603
IC602
IC700
IC321
IC800
BD601
BD602
BD600
PN603
PN602
PN601
PN600
PT600
RY600
SW600
LUG602
LUG600
LUG601
C621
C650
C651
C622
F605
T1AL 250V
(1A 250V)
F604
T1AL 250V
(1A 250V)
F602
T3.15AL 250V
(3.15A 250V)
F603
T1.6AL 250V
(1.6A 250V)
PN201
PNA301
PN202
PN702
FL800
PNB301
RM800
LED800
SW800
SW801
SW802
SW803
SW804
SW805
IC602
IC603
IC604
IC605
IC606
IC700
IC800
PN201
PNA301
PN202
PN702
PN603
PN602
PN601
PN600
PT600
RY600
SW600
PNB301
FL800
RM800
LED800
PN302
PN303
PN304
CN302
CN303
CN304
PN570
JK300
TH982
PN981
RY302
RY301
RY300
LUG602
LUG600
LUG601
BD601
BD602
BD600
C621
C650
C651
C622
F605
F604
F602
F603
IC320
IC551
IC321
IC601
IC600
IC606
IC604
IC605
IC603
IC602
IC700
IC800
JK300
TH982
PN981
RY302
RY301
RY300
CN302
CN303
CN304
PN570
PN302
PN303
PN304
PN201
PNA301
PN202
PN702
PN603
PN602
PN601
PN600
PT600
RY600
SW600
LUG602
LUG600
LUG601
BD601
BD602
BD600
C621
C650
C651
C622
F605
F604
F602
F603
FL800
PNB301
RM800
LED800
SW800
SW801
SW802
SW803
SW804
SW805
IC602
IC603
IC604
IC605
IC606
IC700
IC800
IC320
IC551
IC321
IC601
IC600
PN302
PN303
PN304
CN302
CN303
CN304
PN570
JK300
TH982
PN981
RY302
RY301
RY300
PN201
PNA301
PN202
PN702
PN603
PN602
PN601
PN600
PT600
RY600
SW600
PNB301
FL800
RM800
LED800
LUG602
LUG600
LUG601
BD601
BD602
BD600
C621
C650
C651
C622
F605
F604
F602
F603

• MAIN, POWER, FRONT, MICOM P.C. BOARD(COMPONENT SIDE)

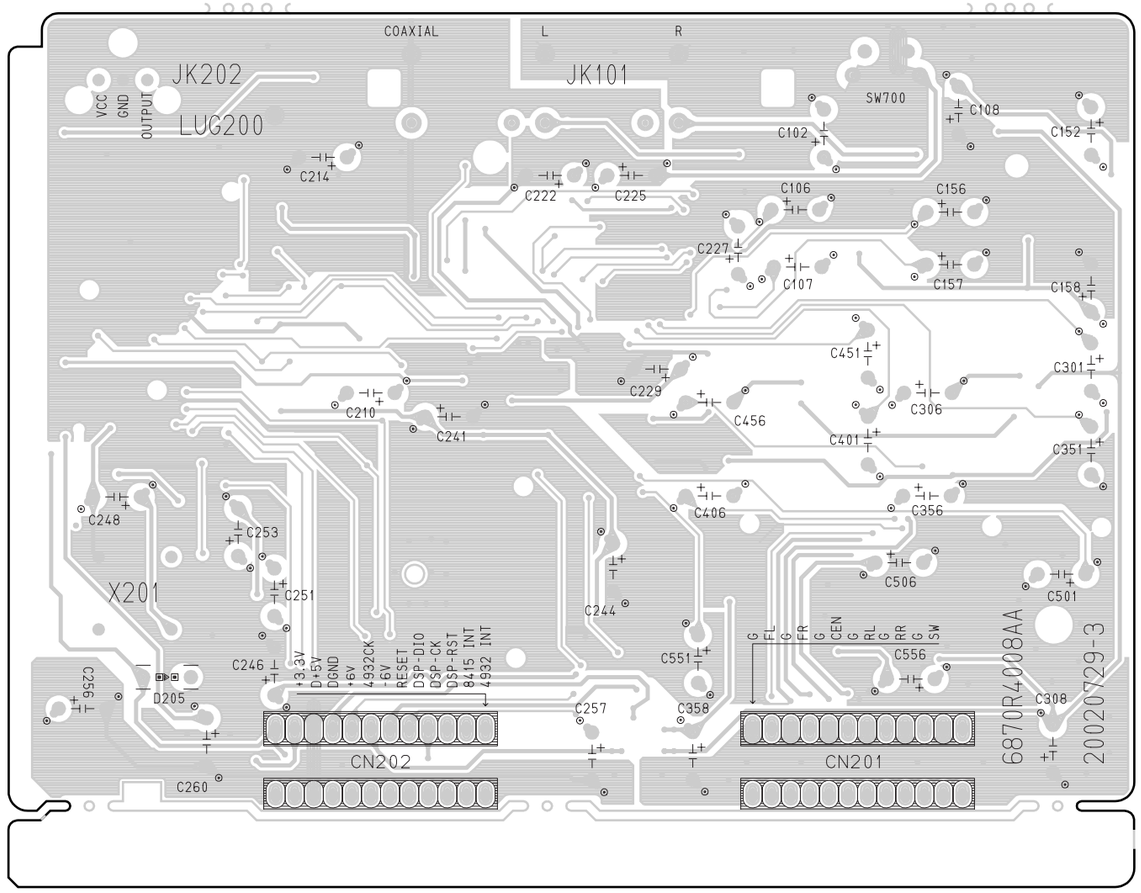


BD600	J5	C612	K4	D936	M9	PN304	E8	R583	G8	R936	M10
BD601	L6	C613	L5	D941	L9	PN570	C9	R584	E8	R937	M9
BD602	J5	C614	L6	D942	M9	PN600	J3	R587	B9	R938	M10
C320	O10	C615	K6	D945	J10	PN601	I3	R588	C11	R939	M9
C321	N11	C616	L6	D946	J10	PN602	J4	R589	C1	R940	L10
C322	N11	C617	N6	D951	J10	PN603	K4	R590	B9	R941	L10
C323	N11	C618	N6	D952	J10	PN702	O2	R591	B10	R942	L10
C324	N10	C619	K4	D955	I10	PN981	F11	R592	B10	R943	M10
C325	E11	C620	J4	D956	J10	PNA301	M5	R600	L1	R944	L9
C326	E11	C621	I6	FB321	N10	PNB301	F2	R601	L1	R945	K11
C327	L11	C622	I4	FB371	O11	PT600	K3	R602	I3	R946	K10
C328	K10	C623	J2	FB421	O11	Q500	G8	R603	L2	R947	J10
C370	O10	C624	N1	FB471	O11	Q600	L1	R604	L2	R948	K10
C371	N11	C625	M6	FB521	P11	Q601	M4	R605	K4	R949	J10
C372	M10	C626	N4	FB600	P2	Q700	M2	R606	M4	R950	K10
C373	M11	C627	M4	FB601	I2	Q931	N10	R607	M4	R951	J11
C374	M10	C650	I6	FB602	I1	Q935	M10	R608	L1	R952	J10
C375	E11	C651	I4	FB603	J1	Q941	M9	R609	L1	R953	J10
C376	E11	C652	P4	FB700	M2	Q945	K10	R700	O4	R954	J10
C377	M11	C700	M2	FHA602	I2	Q951	J10	R701	O4	R955	I11
C378	L11	C701	N2	FHA603	H2	Q955	I11	R702	O4	R956	I11
C420	O10	C702	N2	FHA604	K5	Q971	H8	R703	O4	R957	I10
C421	O11	C703	N3	FHA605	M5	Q972	H8	R704	N4	R958	I11
C422	L11	C704	N3	FHB602	I2	Q973	M8	R706	N4	R959	J10
C423	L11	C705	O3	FHB603	H2	Q981	F11	R707	N4	R961	G8
C424	L10	C706	M2	FHB604	K5	R320	O10	R708	N4	R962	G8
C425	C11	C709	M3	FHB605	L5	R321	N11	R709	M3	R963	G8
C426	C11	C710	N4	FL800	G5	R322	N11	R710	M2	R964	G10
C470	O10	C711	O4	IC320	M11	R323	N10	R711	O2	R965	G10
C471	O11	C712	N1	IC551	H11	R324	D11	R712	P2	R966	G10
C472	J11	C713	O2	IC600	M6	R325	L10	R713	P2	R971	N7
C473	K11	C714	O4	IC601	M7	R326	D11	R714	P2	R972	H8
C474	J11	C715	N4	IC602	N1	R327	D11	R716	N7	R973	I8
C475	D11	C800	C2	IC603	L3	R370	O10	R717	N7	R974	N8
C476	D11	C801	G3	IC604	M4	R371	M11	R718	O3	R975	N8
C520	P10	C802	E4	IC605	L2	R372	M10	R719	O4	R976	H8
C521	O11	C803	G3	IC606	M5	R373	M10	R720	O4	R977	O4
C522	J11	C804	H4	IC700	N10	R374	E11	R721	O4	R980	F11
C523	J11	C805	H4	J302	L10	R375	N10	R722	O4	R981	F12
C524	J11	C806	B5	J303	L10	R376	E11	R723	O4	R982	E8
C525	C11	C807	B3	J304	K11	R377	E11	R724	O4	R983	E8
C526	C11	C931	N10	J305	J10	R420	O10	R725	M3	R984	E9
C570	G11	C935	M10	J306	I11	R421	L11	R726	N2	RM800	C3
C571	G11	C941	M10	J307	F11	R422	L11	R730	N2	RY300	F9
C572	H11	C945	K10	J308	F10	R423	M10	R732	O3	RY301	F9
C574	H10	C951	J10	J309	F10	R424	C11	R733	O3	RY302	F11
C575	C9	C955	I11	J310	F10	R425	C11	R734	O4	RY600	K1
C576	I11	C971	H9	J311	F9	R426	C11	R735	O4	SW600	I1
C577	I10	C972	N8	J312	F9	R470	P10	R736	P5	SW800	G3
C578	H10	C982	F11	J600	K3	R471	J11	R737	P5	SW801	F3
C580	N7	CN302	O8	J601	K3	R472	J11	R738	O5	SW802	D3
C581	N7	CN303	K8	J603	L2	R473	K11	R739	O6	SW803	B2
C582	P7	CN304	D8	J604	K5	R474	D11	R740	O6	TH981	J11
C594	F12	D501	I11	J605	M5	R475	D11	R741	P6	TH982	F11
C595	F12	D600	L2	J606	M6	R476	D11	R800	C3	XT700	N2
C596	B12	D601	L2	J607	H2	R520	P10	R801	G3	ZD500	F8
C597	B12	D602	L2	J608	I2	R521	J12	R802	E3	ZD501	I11
C598	B12	D603	L4	J609	J2	R522	J11	R803	E3	ZD502	I11
C601	L2	D604	L4	J610	I1	R523	J11	R805	F3	ZD600	L1
C602	M2	D605	L4	J611	I2	R524	C11	R806	C2	ZD601	L2
C603	M2	D610	P6	JK300	D12	R570	G11	R807	D3	ZD602	L4
C604	M4	D611	P6	LED800	B3	R571	H11	R808	F3	ZD605	P7
C605	M4	D700	M2	LUG600	I4	R572	H11	R809	F3	ZD606	N7
C606	L4	D701	M3	LUG601	H4	R573	I12	R930	N10	ZD607	N7
C607	L4	D703	N3	LUG602	H4	R574	B9	R931	N10	ZD801	G2
C608	M4	D800	G2	PN201	P5	R577	I10	R932	M9	ZD802	G2
C609	M4	D931	M9	PN202	P2	R578	I11	R933	N10	ZD981	F12
C610	M3	D932	N9	PN302	P8	R581	B9	R934	N9		
C611	O1	D935	M9	PN303	L8	R582	M11	R935	L10		

• DSP P.C. BOARD(COMPONENT SIDE)



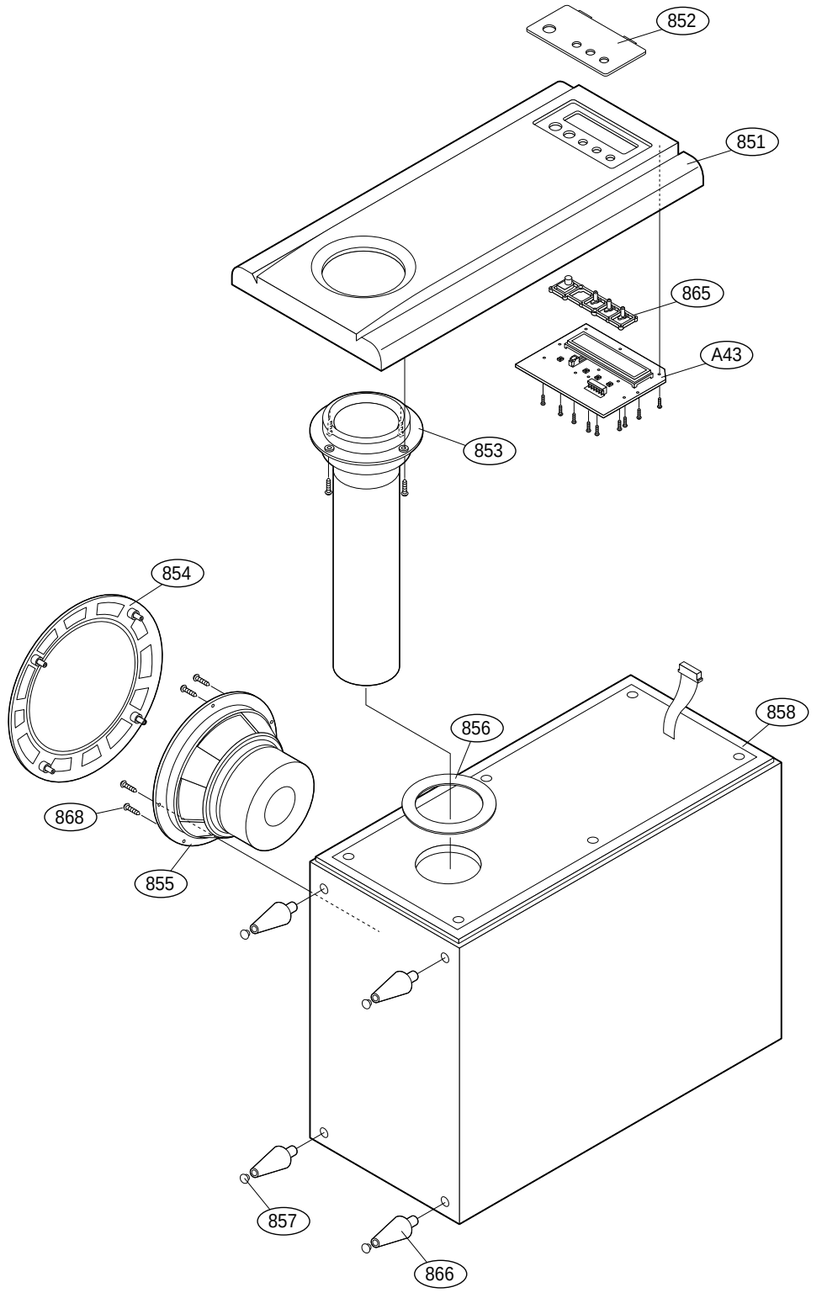
• DSP P.C. BOARD(SOLDER SIDE)

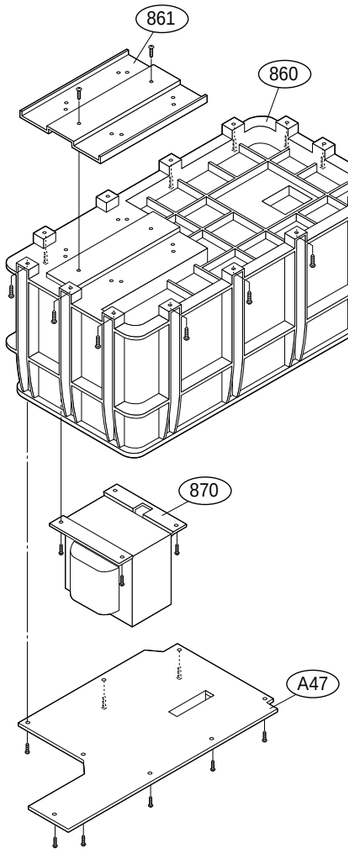


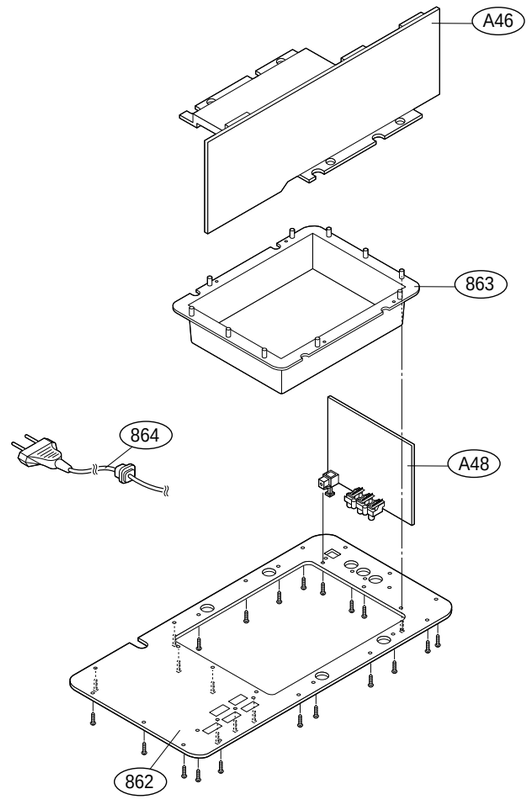
EXPLODED VIEWS

- **Active Subwoofer**
  MODEL : FE-3000AWE

NOTE) Refer to “REPLACEMENT PARTS LIST” in order to look for the part number of each part.

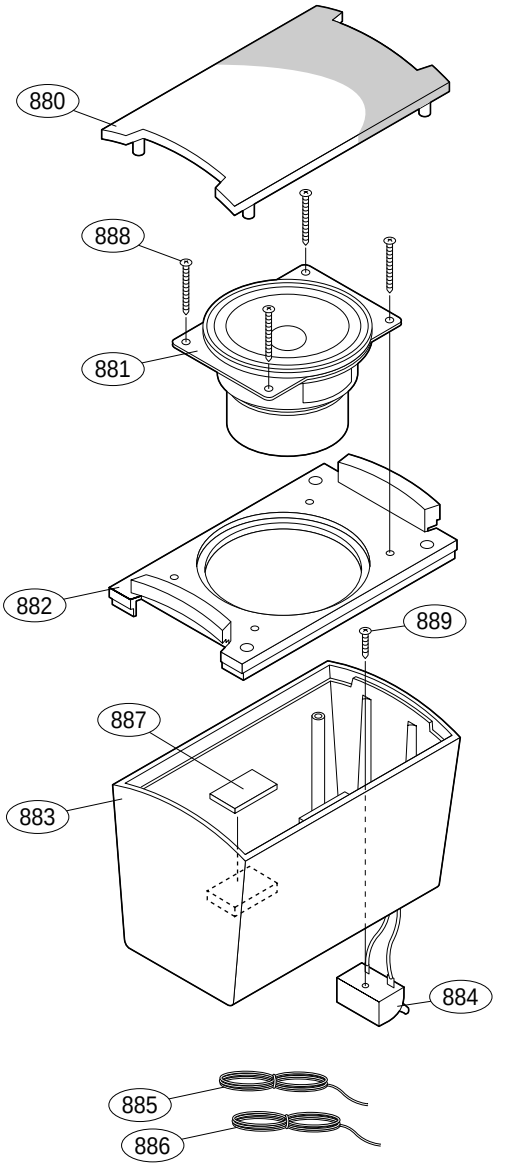






Satellite Speaker

MODEL: FE-3000TE



MEMO